Homework 3 ASCII and Unicode Unit 8 Data representation



Homework 3: ASCII and Unicode

 A simple three-letter code word is saved to a personal
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(a) What is the size in bytes of the code word?

[1]

(b) The code word is represented on the disk in a binary format, saved as:

01000011 01000001 01000010

Character	Binary
Α	01000001
В	01000010
С	01000011
D	01000100
Е	01000101

		Using the section of the ASCII table above, what is the code word?	[3]
	(c)	What is the hexadecimal representation of the code word?	[2]
	(d)	Calculate the denary value representing the letter E .	[1]
2.	Inte	egers which are to be used in calculations are represented as pure binary numbers	
۷.		What is the pure binary representation of the number 76?	[1]
	(b)	The ASCII character 7 is represented by the denary number 55. Convert the ASCII string '76' to binary.	[1]

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	(c)	Give two advantages of representing integers in pure binary.	[2]
3.	(a)	What are the limitations of the 8-bit extended ASCII character set?	[1]
	(b)	How can these limitations be overcome?	[2]

[Total 14 marks]